

ATMOSPHERIC ELECTRICITY.

Thunder-storms occurred principally as follows: On the 1st and 2d, in the South Atlantic and Gulf States, Indiana, Kansas, Kentucky and Missouri; on the 3d, in Georgia and Mississippi; on the 4th and 5th, in Mississippi, Louisiana and Ohio; on the 7th, from Georgia to New Jersey; on the 12th, in Indiana, Kentucky, Maryland and Tennessee; from the 13th to the 16th, they were quite general, except in New England. From the 23d to the close of the month, they were frequently reported from the southern and interior districts. Between 300 and 350 thunder-storms have been reported during March.

Auroras were comparatively few in number. They were seen on the 1st, in Vermont and Minnesota; on the 2d, in Iowa, Michigan, Minnesota, Nebraska, New York, Wisconsin, Pennsylvania and Massachusetts; on the 3d, in Iowa, Vermont and Massachusetts; on the 6th, in Wisconsin; on the 7th, in Michigan and Wisconsin; on the 8th, in New Hampshire and Ohio; on the 21st, in New York; on the 23d, in Kansas; on the 28th, in Maine, New York, Vermont, Wisconsin, Massachusetts and Michigan; on the 29th and 30th, in Vermont.

OPTICAL PHENOMENA.

Solar Halos were observed frequently, *e. g.*, at Savannah, on the 2d, 11th, 17th, 18th, 24th and 27th; Eastport, Maine, 13th and 31st; Rochester, 11th, 28th, 29th and 30th; Springfield, Massachusetts, 9th; Morgantown, West Virginia, 18th; Erie, 29th; Wood's Hole, Massachusetts, 7th; St. Louis, 10th; Leavenworth and Mobile, the 17th; New London, 25th; Mt. Washington, 11th; Fort Gibson, the 12th; Wilsonville, Ala., 11th and 13th; Hutchinson, Col. Ter., 31st; Southington, Conn., 26th; Rockford, Ill., 17th; Riley, Ill., 4th, 12th and 18th; at Wyandot, Ill., on the 12th, 16th and 17th; at Lebanon, Ill., 10th; Rising Sun, Ind., 18th; South Bend, Ind., 31st; Rockford, Iowa, 3d; Aston, Iowa, 4th and 19th; Guttenberg, Iowa, 3d, 4th, 7th and 10th; Independence, Iowa, 3d, 4th and 17th; Cresco, Iowa, 4th and 7th; Holton, Kansas, 17th; at Ellenwood, Kansas, 17th, 18th and 27th; Cornish, Maine, 1st, 3d, 5th, 11th, 14th and 28th; Standish, Maine, 3d, 18th, 24th, 25th, 26th, 28th and 30th; Mt. Desert, Maine, 14th; Oxford, Maine, 18th; Newburyport, Mass., 28th; Somerset, Mass., 14th; Andover, 1st; Florida, Mass., 9th; Fall River, 29th; Detroit, 4th; Lansing, 29th; Warrensburg, Mo., 22d, 23d, 26th and 27th; Howard, Neb., 4th, 9th, 15th, 16th and 17th; Auburn, N. H., 1st, 3d, 6th, 7th, 11th, 13th, 24th and 28th; Troy, N. Y., 26th and 28th; Reading, Penn., the 2d. Solar Halos were also seen in Ohio on the 16th and 23d; Pennsylvania, 18th, 19th, 22d, 24th, 26th and 29th; Tennessee, 6th, 11th, 22d and 31st; Vermont, 11th, 24th and 26th; Virginia, 6th, 11th, 12th and 19th; Wisconsin, 4th, 5th, 8th and 10th.

Lunar Halos were reported at Wilmington, N. C., on the 11th; Buffalo, 15th and 18th; Savannah, 13th, 14th and 18th; Boston, 18th; New York and Philadelphia, 19th; Memphis, 5th; Cincinnati, 22d; Keokuk, 17th and 22d; Grand Haven, 17th, 18th and 21st; La Crosse, 13th, 16th and 20th; Eastport, 13th; Nashville, 18th; Toledo, 16th and 21st; Springfield, Mass., 6th and 22d; Louisville, 14th; Morgantown, 14th and 18th; Cairo, 17th; Erie, 18th; Indianola, 16th and 18th; Denver, 18th; Shreveport, 22d; Oswego, 23d; Atlantic City, 18th and 23d; Ecanaba, 20th; Mobile, 16th and 17th; Fort Gibson, 17th and 21st; Detroit, 16th, 18th and 21st.

Mirage, reported from Atlanta, Kansas, on the 3d, 7th and 16th inclusive, 21st, 22d, 24th, 26th, 27th and 28th; from Ellenwood, Kansas, on the 7th, 13th and 28th.